

## Anti-Dis3 (*S. pombe*) antibody, rabbit serum

63-123 200ul

*S. pombe* **dis3** protein is an essential component for mitotic segregation (ref.1). It is a component of the exosome 3'→5' exoribonuclease complex. It is required for the 3'-processing of the 7S pre-rRNA to the mature nuclear complex. It is also associated with the GTPase Ran and has a 3'-5' exonuclease activity. It is composed of 970 amino acids with molecular mass of 110 kDa. It is highly conserved functionally and structurally from yeast to human.

### Applications:

1. Western blotting (100~300 fold dilution)
2. Immunofluorescence staining

**Immunogen:** Recombinant full-length dis3

**Specificity:** Reacts with *S. pombe* dis3 protein. Not tested for other species

**Form:** Antiserum added with 0.09% sodium azide

**Storage:** -20°C (long period, -70°C)

**Data Link:** UniProtKB/Swiss-Prot [P37202](#) (DIS3\_SCHPO)

### References: This antibody was used in the following references.

1. Kinoshita N "The fission yeast *dis3+* gene encodes a 110-kDa essential protein implicated in mitotic control" *Mol Cell Biol* **11**:5839-5847(1991) PMID: [1944266](#)
2. Noguchi E *et al* "Dis3, implicated in mitotic control, binds directly to Ran and enhances the GEF activity of RCC1" *EMBO J* **15**:5595-5605(1996) PMID: [8896453](#)

Fig.1 Immunoblotting of extracts of *S. pombe* cells transformed with the vector or plasmids carrying truncated genes (172, A, B, C, E) with anti-dis3 antibodies. Polypeptides of expected molecular masses were detected (ref.1).

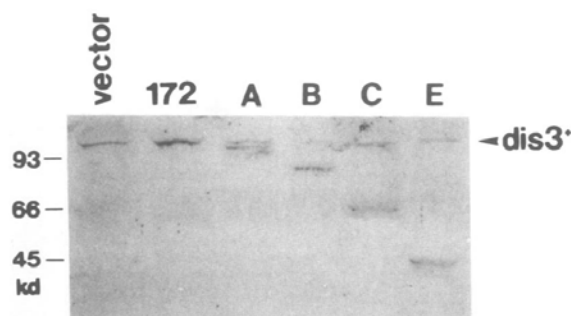


Fig.2 Localization of the *dis3+* gene product by immunofluorescence microscopy. *S. pombe* cells were fixed and prepared for immunofluorescence microscopy with anti-dis3 antibodies. Left, DAPI stain for chromosomal DNA. Right, anti-dis3 antibody stain (ref.1).

